



PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due
PO039971	TWM001-VU	1	1	Net 30	M304TS0.500W.049	Square Tubing : MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBING AS PER ASTM A554 MILL FINISH OR ASTM A269 MILL FINISH				200	6/7/2018	201		S078000	Stock	6/5/2018	\$ 1.60 / ft	0	
						Total:	200			201									

Plex 6/5/2018 10:13 AM Dart.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO039971

E-MAILED
MAY 23 2018

Supplier:	TWM001-VU TW Metals PO Box 933014 Atlanta, GA 31193-3014 USA Phone: 585 768 5600 Fax: 585 768 5601	PO No:	PO039971
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	PO Date:	5/23/18
		Due Date:	6/7/18
		Purchase Order Revision:	
		Revision Date:	
		Ship-To Contact:	Lavoie, Chantal Phone: clavoie@dart.aero.com
		Via:	Ground
		Pymt Terms:	Net 30
		Freight Terms:	
		Special Comments:	

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M304TS0.500W.049		Square Tubing : MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBING AS PER ASTM A554 MILL FINISH OR ASTM A269 MILL FINISH	Firmed	6/7/18	200 ft	0 ft	200 ft	\$1.60/ft	\$320.00
										JUN 05 2018
										Grand Total: \$320.00

Order Notes

- Procurement Quality Clauses
- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dart aerospace.com for further explanation.

DAS
11
9-89

Plex 5/23/18 1:47 PM dart.lavoie.chantal



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60657295 FROM: CRAN PAGE 1

CUST NUMBER: 1203820 NET WGT: 50.420 REQ. DATE: 06/07/18 CONFIRMED
 SOLD TO:
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKSBURY ON
 CANADA CN K6A 1K7
 SHIP TO:
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKSBURY ON
 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 05/31/18
 TERMS: NET 30 DAYS VIA: COMMON CARRIER
 F.O.B.: SHIPPING POINT FREIGHT: PREPAID
 CUST ORD NO.: PO039971 RELEASE NO.:
 RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
 0001 STOB 304 SQ ASTM A554 .500 SQ X .049 240.0000

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	200.000 FT	201.670 FT	201.670 FT	50.420

** 1 TEST REPORTS REQUIRED **
 ** 1 CERTS REQUIRED **

ECCN: 2B999.G Export License: NLR Expiration Date: 0/00/00
 PO:60050884 HT:099D PC: 10 CUSTOMER QTY: 201.670 UOM FT
 MLT:UNITED STATES MFG:UNITED STATES SLB/CL:01052394

BROKERS KUEHNE AND NAGEL LTD

PACK INFO					
AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH HGT
B	CARTON	1.000	105.000		20.5000

1.000	105.000
-------	---------

UNLOAD TYPE: NONE SPECIFIED

BY: KP
RT 000-

DATE SHIPPED _____

1

DATE FILLED _____

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
 PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
 REVIEW.
<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 60657295 FROM: CRAN PAGE 2

CUST NUMBER:	1203820	NET WGT:	50.420	REQ. DATE:	06/07/18 CONFIRMED
SOLD TO:	SHIP TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA				
DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA	CN K6A 1K7				CN K6A 1K7
SALESPERSON:	DONNA SMALLEY		SHIP BY:	05/31/18	
TERMS:	NET 30 DAYS		27 ENGLEHARD DRIVE		
F.O.B.:	SHIPPING POINT		MONROE TWP	NJ 08831	
CUST ORD NO.:	PO039971				
VIA:	COMMON CARRIER				
FREIGHT:	PREPAID				
RELEASE NO.:/					
RECEIVING PHONE:					

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 5/29/18

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

4050884

PHOENIX TUBE COMPANY, INC.

Manufacturer of Stainless Ornamental and Structural Tubing

CERTIFICATION OF TEST

Sold To: STAINLESS TUBULAR PRODUCTS
27 ENGLEHARD DR

MONROE TOWNSHIP NJ 08831
USA

CUSTOMER ORDER#: M 01052394

CUST REF NBR: 05029

DATE SHIPPED: 11/21/16

SIZE: 1/2SQ X 18 GA AW

SOURCE: USA

VENDOR: NAS

Ship To: STAINLESS TUBULAR PRODUCTS
27 ENGLEHARD DR

MONROE TOWNSHIP NJ 08831
USA

Phone# 8605666

Ext:

ORDER#: 411605

QTY SHIPPED: 3085.0

GRADE: 304L

HEAT#: 099D

WELD: HF

TEST REPORT#: TR013610

Report Date: 08/09/16

Specification:

ASTM A554-15A

ASTM A240-16

AMS5511H/AMS5513J

T304L/304 DUAL CERTIFIED MT NO WELD REPAIR
RAW MATERIAL SPEC. RoHS COMPLIANT
UNS# 30400 / 30403 AISI 304L

EN 10204 2.2

NACE MR0175/MR0103

MERCURY IS NOT USED BY US AS AN ALLOYING MATERIAL NOR IS METALLIC MERCURY HANDLED IN THE VICINITY
OF OUR PROCESSING LINES. MATERIAL IS FREE OF MERCURY CONTAMINATION.
MFG USING ANNEALED AND PICKLED PLATE, SHEET, OR STRIP. MATERIAL IS FULL SOLUTION ANNEALED,
AND SHOWS NO CONTINUOUS CARBID PRECIPITATION. MIN SOLUTION ANNEAL TEMP 1900F WATER QUENCHED

Chemical Analysis

C	MN	P	S	SI	CR	NI	MO	CU	CO	N2	TI
.023	1.71	.023	.015	.24	18.22	8.03	.29	.30	NA	.07	NA

Physical Analysis

Hardness	YIELD		TENSILE		OTHER	
	PSI	MPA	PSI	MPA	Percent EL	Percent RA
RB 84	44010	NA	93810	NA	53	NA

THE CHEMICAL ANALYSES ARE CORRECT AS CONTAINED IN OUR CORPORATE RECORDS.
PHYSICAL PROPERTIES ARE DETERMINED WHILE MATERIAL IS IN STRIP FORM.

THIS MATERIAL INCLUDING THE BILLETS, WAS
Melted & MFG in USA DFARS 252.225 Subsection Compliant, FAR BAA, DFAR BAA, FAR TAA Complies

CERTIFIED BY Inventory Control Dept.

Jane Lerner

1185 WIN DR, BETHLEHEM, PA., 18017 - (610) 865-5337
FAX NUMBER: 610-865-4073



PHOENIX TUBE COMPANY, INC.

Manufacturer of Stainless Ornamental and Structural Tubing

CERTIFICATION OF TEST

Sold To: STAINLESS TUBULAR PRODUCTS
27 ENGLEHARD DR

Ship To: STAINLESS TUBULAR PRODUCTS
27 ENGLEHARD DR

MONROE TOWNSHIP NJ 08831
USA

MONROE TOWNSHIP NJ 08831
USA

CUSTOMER ORDER#: M 01052394

CUST REF NBR: 05029

DATE SHIPPED: 11/21/16

SIZE: 1/2SQ X 18 GA AW

SOURCE: USA

VENDOR: NAS

Phone# 8605666 Ext:

ORDER#: 411605

QTY SHIPPED: 3085.0

GRADE: 304L WELD: HF

HEAT#: 099D

TEST REPORT#: TR013610

Specification:

Report Date: 08/09/16

ASTM A554-15A

T304L/304 DUAL CERTIFIED MT NO WELD REPAIR

EN 10204 2.2

ASTM A240-16

RAW MATERIAL SPEC. RoHS COMPLIANT

NACE MR0175/MR0103

AMS5511H/AMS5513J

UNS# 30400 / 30403

AISI 304L

MERCURY IS NOT USED BY US AS AN ALLOYING MATERIAL NOR IS METALLIC MERCURY HANDLED IN THE VICINITY OF OUR PROCESSING LINES. MATERIAL IS FREE OF MERCURY CONTAMINATION.

MFG USING ANNEALED AND PICKLED PLATE, SHEET, OR STRIP. MATERIAL IS FULL SOLUTION ANNEALED, AND SHOWS NO CONTINUOUS CARBID PRECIPITATION. MIN SOLUTION ANNEAL TEMP 1900F WATER QUENCHED

Chemical Analysis

C	MN	P	S	SI	CR	NI	MO	CU	CO	N2	TI
.023	1.71	.023	.015	.24	18.22	8.03	.29	.30	NA	.07	NA

Physical Analysis

Hardness	YIELD		TENSILE		OTHER	
	PSI	MPA	PSI	MPA	Percent EL	Percent RA
RB 84	44010	NA	93810	NA	53	NA

THE CHEMICAL ANALYSES ARE CORRECT AS CONTAINED IN OUR CORPORATE RECORDS.

PHYSICAL PROPERTIES ARE DETERMINED WHILE MATERIAL IS IN STRIP FORM.

THIS MATERIAL INCLUDING THE BILLETS, WAS

Melted & MFG in USA DFARS 252.225 Subsection Compliant, FAR BAA, DFAR BAA, FAR TAA Complies

CERTIFIED BY Inventory Control Dept.

1185 WIN DR, BETHLEHEM, PA., 18017 - (610) 865-5337

FAX NUMBER: 610-865-4073

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304T50.500W.049
 DATE: JUN 05 2018

PO / BATCH NO.: 0399715078000

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 201
 QUANTITY INSPECTED: 201
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.049
 THICKNESS RECEIVED: W.049
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Astm A554
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Hact#099D
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> DATE: <u>11 JUN 05 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PURCHASE MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBING

FINISH:

OR *ASTM A554 MILL FINISH*

ASTM A269 MILL FINISH

WHERE: A.AAA = WIDTH IN INCHES

.TTT = WALL THICKNESS IN INCHES

PART NUMBER:

M304TS|A.AAA|W.TTT

|WIDTH|
|WALL|

PART NUMBER:
E.G. 0.75" X 0.75" X 0.049 WALL = M304TS.750W.049



RELEASED
2014-05-26
Ma

B
A

D	'SEAMLESS' REMOVED FROM PURCHASE MATERIAL SPECIFICATION (SEE NCR 4-381B)	DB	14.05.20
C	'SEAMLESS' ADDED TO PURCHASE MATERIAL. ASTM A269 ADDED TO FINISH.	AJS	06.10.16
B	REASON: SPEC ADDED FOR 1/2" TUBING		
B	DRAWING MOVED TO "B" SIZE BORDER FINISH ADDED (SEE NCR 08-045 FOR DETAILS).	AJS	06.08.28
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO CANADA	
DRAWN	DB		
CHECKED	<i>Ma</i>	DRAWING NO.	REV. D
MFG. APPR.	<i>Ma</i>	M304TS	SHEET 1 OF 1
APPROVED	<i>Ma</i>	TITLE	SCALE
DE APPR.	<i>Ma</i>	304/316 SQUARE TUBING	NONE
DATE	14.05.20	THE DRAWINGS CONTAINED HEREIN ARE THE PROPERTY OF DART AEROSPACE LTD. NOTICE: THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT MAY NOT BE COPIED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF DART AEROSPACE LTD.	

8 7 6 5 4 3 2 1

b 1 6 5 4 3 2 1

D C B A